Kelly, Virginia

From: Longandassoc@aol.com

Sent: Monday, September 22, 2008 1:00 PM

To: Kelly, Virginia
Cc: wword@imb.org

Subject: Missionary Learning Center VPDES Permit # VA0067105

Ms. Kelly,

We have recently changed the dumping site for Missionary Learning Center VPDES Permit # VA0067105. We will no longer be using the Hanover County dumpsite located off of Richmond Road. We will be using the City of Richmond dumpsite located just off of I95 via the Murry Street exit. Our dumping permit # for the City of Richmond is 2947. I can send you a copy of the permit. I am in the process of making a route map that shows the route used from Missionary Learning Center to the dumpsite. I will get that to you once I have it completed. Please let me know if there is anything else you need or if you have any questions.

Thank you,

Christy Spain
Office Manager
Long and Associates
office 804-769-7668
fax 804-769-7667
cell 804-212-7963
longandassoc@aol.com

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MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY Piedmont Regional Office

4949-A Cox Road, Glen Allen, Virginia 23060-6295

804/527-5020

TO: Curt Linderman FROM: Gina Kelly DATE: March 27, 2008

SUBJECT: Waiver Request for VA0067105 – Missionary Learning Center STP

COPIES: File (R/W, right)

The permittee has requested a waiver from the Form 2A fecal coliform sampling with regards to the sample seasonality requirement (i.e. at least two samples must be taken at least four months apart). Please note the following:

- The facility is a discharger to South Anna River (in the York River Basin) and has a design flow rate of 0.040 or 0.065 MGD.
- The facility has provided data from three sample analyses for fecal coliform in the Form 2A; all samples were taken in the month of August.
- The reissued permit will require bacteria testing at a frequency of 2/Month to address a bacteria TMDL.
- · Justifications cited for the waiver are:
 - (1) a review of the minimum chlorine concentrations does not indicate a disinfection problem; and
 - (2) sample results do not show concentrations of concern (reported <2N/ 100mL).

Due to an approved bacteria TMDL, this facility will have required bacteria monitoring with limitations; monitoring will occur, at minimum, twice per month. Accordingly, the spirit of the seasonality component of the bacteria testing will be captured in these new monitoring requirements and the associated limitations. Thus, I recommend waiving the timing requirement for the fecal coliform tests.

Approved	☐ Denied
Comments:	As recommended for This peristeyele, only.
Signa	3/58/08 Dafo

Kelly, Virginia

From: Kelly, Virginia

Sent: Thursday, January 17, 2008 2:06 PM

To: 'Longandassoc@aol.com'

Subject: RE: MLC

That's all I need. The application appears to be administratively complete.

Thank you, Gina

----Original Message----

From: Longandassoc@aol.com [mailto:Longandassoc@aol.com]

Sent: Thursday, January 17, 2008 2:02 PM

To: Kelly, Virginia **Subject:** Re: MLC

Gina,

I have gone over your email with Cody and I can offer the following in response:

EPA Form 2A Part A, Item 9.f is should be marked NO. The facility has continuous flow, not intermittent.

VPDES Sludge Application (Sludge Management Plant) Items B. 4 and 10 should both be marked N/A.

If I still need to have Cody sign and return with the corrections please let me know so that we can get that done right away. Our office will be closed starting January 24, 2008 at 3 PM and will not reopen until February 4, 2008. We will all be out of town on family vacation.

Thank you,

Christy Spain Office Manager Long and Associates office 804-769-7668 fax 804-769-7667 cell 804-212-7963

Start the year off right. Easy ways to stay in shape in the new year.



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COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY PIEDMONT REGIONAL OFFICE

L. Preston Bryant, Jr. 4949-A Cox Road, Glen Allen, Virginia 23060 Secretary of Natural Resources (804) 527-5020 Fax (804) 527-5106 www.deq.virginia.gov

David K. Paylor Director

Gerard Seeley, Jr. Regional Director

December 11, 2007

Mr. Gary Beaty Missionary Learning Center WWTP 16492 Missionary Learning Center Lane Rockville, VA 23146

RE: Reissuance of VPDES Permit No. VA0067105 for Missionary Learning Center WWTP

Dear Mr. Beaty:

The staff of Virginia's Department of Environmental Quality has reviewed the referenced application received on December 10, 2007.

On the EPA Form 2A, please clarify the following:

- Part A, Item 9.f Please provide a response for this question.
- Part A, Item 11.b Please indicate the design removals for total nitrogen and total phosphorus; if these values do not exists, please respond "n/a."
- Part A.12 This item requires the results of three fecal coliform samples, two of which must be taken 4 8 months apart. Should you not be able to meet the timing requirements, DEQ could consider a waiver for this requirement if a waiver request were made.

With regards to the VPDES Sludge Application (Sludge Management Plan):

- The first page is missing; a copy of this page has been included with this correspondence.
- Item A.7 Provide a description of the services provided by Cody Long.
- Item B.3.c Please provide a response for this question.
- Items B.4, 5, 7, 8, 9, and 10 Please review these questions and verify that they are not applicable.

Please also sign and return the enclosed public notice authorization.

You are hereby requested to make the necessary corrections and provide the additional information in order to eliminate the deficiencies outlined above; a letter or email response is acceptable. Please provide the corrections and additional information by December 31, 2007.

If I can be of further assistance, please contact me at 804/527-5048 or vekelly@deq.virginia.gov.

Sincerely,

Virginia R. E. Kelly, EIT

Environmental Engineer

JAN 0 4 2008

VPDES Permit Application Addendum

1.	Entity to whom the permit is to be issued: International Mission Board
	Tho will be legally responsible for the wastewater treatment facilities and compliance with the permit? This ay or may not be the facility or property owner.
2.	Is this facility located within city or town boundaries? xx (N)
3.	What is the tax map parcel number for the land where this facility is located? 7729-45-8653
4.	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities? None
5.	ALL FACILITIES: What is the design average flow of this facility?040MGD Industrial facilities: What is the max. 30-day avg. production level (include units)?N/A
	In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? $\times \times \times$
	If "Yes", please specify the other flow tiers (in MGD) or production levels:
	ease consider: Is your facility's design flow considerably greater than your current flow? Do you plan to pand operations during the next five years?
6.	Nature of operations generating wastewater: Domestic
	$\frac{100}{100}$ % of flow from domestic connections/sources Number of private residences to be served by the wastewater treatment facilities: $\frac{x_0}{100} = \frac{1}{100}$ or more
	0% of flow from non-domestic connections/sources
7.	Mode of discharge : X ContinuousIntermittentSeasonal Describe frequency and duration of intermittent or seasonal discharges:
8.	Identify the characteristics of the receiving stream at the point just above the facility's discharge point: XXPermanent stream, never dry Intermittent stream, usually flowing, sometimes dry Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry Lake or pond at or below the discharge point Other:
9.	Approval Date(s): O & M Manual 09/20/00 Sludge/Solids Management Plan 09/20/00
	Have there been any changes in your operations or procedures since the above approval dates? Y N

10. What is the average hardness of the effluent that you discharge? 8/mg/L

LONG AND ASSOCIATES

in the state of th

January 3, 2008

Virginia R. E. Kelly, ETT Environmental Engineer Department of Environmental Quality Piedmont Regional Office 4949-A Cox Road Glen Allen, Virginia 23060 Phone (804) 527-5020 Fax (804) 527-5106 WWW.deq.virginia.gov

Ms. Virginia R.E. Kelly, EIT

Per item 7 of the sewage sludge permit application form the contractor Long and Associates Environmental is responsible for transporting the content of sludge holding tank from Missionary Learning Center Waste Water Treatment Plant to the sewage dump site located on Richfood Road in Hanover County as needed. Our permit number for that dump site is 001.

Singerely.

Cody Dong

Long and Associates Environmental



SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and d on your facility's sewage sludge use or disposal practices. The information provided on this page will help you

•	nine which sections to fill out.					
1.	All applicants must complete Section A (General Information).					
2.	Will this facility generate sewage sludge? Yes _No					
	Will this facility derive a material from sewage sludge?Yes _No					
	If you answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material Derived From Sewage Sludge).					
3.	Will this facility apply sewage sludge to the land?Yes X No					
	Will sewage sludge from this facility be applied to the land? Yes XNo					
	If you answered No to both questions above, skip Section C.					
	If you answered Yes to either, answer the following three questions:					
	 Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? Yes _No 					
	b. Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land? _Yes No					
	c. Will sewage sludge from this facility be sent to another facility for treatment or blending? X Yes _No					
	If you answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).					
	If you answered Yes to a, b or c, skip Section C.					
4.	Do you own or operate a surface disposal site?YesNo					
	If Yes, complete Section D (Surface Disposal).					

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FACILITY NAME: Missionary Learning Center VPDES PERMIT NUMBER: VA 0067105

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official tit	le <u>Gar</u>	y N.	Beaty		Facilities	<u>Direc</u> tor
Signature		~~~	Da	te S	ligned	
Telephone number	(804)	620	-3803			

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1.		10.6%
	Amoun	t Generated On Site. ry metric tons per 365-day period generated at your facility: dry xietric xons 40,000 gpy per y
	Total di	y metric tons per 303-day period generated at your facility.
_		t Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or
2.	Amoun	l, provide the following information for each facility from which sewage sludge is received. If you receive
	disposa	I, provide the following information for each facility from which seems are necessary
	sewage	sludge from more than one facility, attach additional pages as necessary.
	a.	Facility name: None
	b.	Contact Person:
		Title:
		Phone ()
	c.	Mailing address:
		Street or P.O. Box: City or Town: State: Zip:
		City or Town: State: Zip:
	d.	Faculty Address:
		(not P.O. Box)
	e.	Total dry metric tons per 365-day period received from this facility: dry metric tons dry metric tons
	f.	Describe on this form or on another sheet of paper any treatment processes known to occur at the on-she
		facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:
3.	Treatm	ent Provided at Your Facility.
	a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility?
		Class A Class B v Neither or unknown
	b.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce
		pathogens in sewage sludge: None
L	с.	Which vector attraction reduction option is met for the sewage sludge at your facility?
		Option 1 (Minimum 38 percent reduction in volatile solids)
		Option 2 (Anaerobic process, with bench-scale demonstration)
		Option 3 (Aerobic process, with bench-scale demonstration)
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
		Option 5 (Aerobic processes plus raised temperature)
		Option 6 (Raise pH to 12 and retain at 11.5)
		Option 7 (75 percent solids with no unstabilized solids)
		Option 8 (90 percent solids with unstabilized solids)
		V None or unknown
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce
		vector attraction properties of sewage sludge: None
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including
	٠.	blending not identified in a - d above: None
		blending, not identified in a - d above: None
		blending, not identified in a - d above: None
		blending, not identified in a "dadoot."
ı	Prenara	blending, not identified in a "d'abovo."
1.	Prepara	ation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and
4.	One of	ation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and Vector Attraction Reduction Options 1-8 (EQ Sludge).
4.	One of (If sewar	ation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and Vector Attraction Reduction Options 1-8 (EQ Sludge).
1 .	One of	ation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and Vector Attraction Reduction Options 1-8 (EQ Sludge). ge sludge from your facility does not meet all of these criteria, skip Question 4.) Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:
4.	One of (If sewar a.	ation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and Vector Attraction Reduction Options 1-8 (EQ Sludge). ge sludge from your facility does not meet all of these criteria, skip Question 4.) Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: dry metric tons
4.	One of (If sewar	ation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and Vector Attraction Reduction Options 1-8 (EQ Sludge). ge sludge from your facility does not meet all of these criteria, skip Question 4.) Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:

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FACIL	ITY NA	AME: Missionary Learning Center VPDES PERMIT NUM	BER: VA 0067105
5		or Give-Away in a Bag or Other Container for Application to the Land.	
	(Compl	lete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land appl	iention. Skip this
	questio	in if sewage sludge is covered in Question 4.)	
	a.	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other containe	r at your facility
		for sale or give-away for application to the land: dry metric tons	
	Ъ.	Attach, with this application, a copy of all labels or notices that accompany the sewage slud	ge being sold or
		given away in a bag or other container for application to the land.	
6.	Shipm	nent Off Site for Treatment or Blending.	
0.	(Compl	lete this question if sewage sludge from your facility is sent to another facility that provides treatment or blend	ing. This question
	does no	at apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sev	vage sludge is
	covered	d in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary	.)
	a.	Receiving facility name: Hanover County DPU Septage Receiving	Facility
	Ъ.	Facility contact: John Cross	ub
		Title: Attendant	
		Phone: () (804) 559-1954	
	c. ·	Mailing address:	
	••	Street or P.O. Box: P.O. Box 470	
			40 000 any nor
	đ.	Total dry metric tons per 365-day period of sewage sludge provided to receiving facility:	40,000 gpy per
	٠.	metric tons	
	e.	List, on this form or an attachment, the receiving facility's VPDES permit number as well as	the numbers of
	. .	all other federal, state or local permits that regulate the receiving facility's sewage sludge use	e or disposal
		practices:	
		Permit Number: Type of Permit:	
		None	
	f.	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludg	e from your
	1.	facility? Yes x No	, <i>,</i>
		Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility	?
		Class A Class B X Neither or unknown	
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving	ng facility to
		reduce pathogens in sewage sludge: None	,
		reduce pathogens in somage creege.	14.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.
	g.	Does the receiving facility provide additional treatment to reduce vector attraction character	istics of the
	5-	sewage sludge? Yes X No	
		Which vector attraction reduction option is met for the sewage sludge at the receiving facilit	y?
		Option 1 (Minimum 38 percent reduction in volatile solids)	-
		Option 2 (Anaerobic process, with bench-scale demonstration)	
		Option 3 (Aerobic process, with bench-scale demonstration)	RECEIVED
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)	
		Option 5 (Aerobic processes plus raised temperature)	JAN 0 4 2008
		Option 6 (Raise pH to 12 and retain at 11.5)	
		Option 7 (75 percent solids with no unstabilized solids)	PR()
		Option 8 (90 percent solids with unstabilized solids)	<i>M</i>
		None unknown	
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving	ng facility to
		reduce vector attraction properties of sewage sludge: None	•
		Todaco vocasi usaasion proposition and the same and the s	
	h.	Does the receiving facility provide any additional treatment or blending not identified in f or	g above?
	11.	Yes XNo	· ·
		If yes, describe, on this form or another sheet of paper, the treatment processes not identified	l in f or g above:
		None	₩
	i.	If you answered yes to f., g or h above, attach a copy of any information you provide to the	receiving facility
		to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.	. J
		to compay tree are more and more and another than the second of the seco	

yea

FACI	LITY N		RMII NUMBER: VA 006/105
	j	Does the receiving facility place sewage sludge from your facility in a bag or	other container for sale or give-
		away for application to the land? Yes X No	
		If yes, provide a copy of all labels or notices that accompany the product being	g sold or given away.
	k.	Will the sewage sludge be transported to the receiving facility in a truck-moun	ated watertight tank normally
		used for such purposes? X Yes No. If no, provide description and spec	ification on the vehicle used to
		transport the sewage sludge to the receiving facility.	
		Show the haul route(s) on a location map or briefly describe the haul route bel	low and indicate the days of the
		week and the times of the day sewage sludge will be transported. From W	WTP to South Nuckols to
		1295 South to Rt. 301 South, left on Richfoo	d Lane then right to
		Barricade Lane. Monday - Friday 7:30 a.m	3:30 p.m.
_		A. Vinetian of Dulk Courage Chydge	
7.	Land	Application of Bulk Sewage Sludge. plete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sl	udge is covered in Ouestions 4, 5 or 6:
	(Com	plete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)	and the second s
		Total dry metric tons per 365-day period of sewage sludge applied to all land	application sites: O dry
	a.		approduct office.
	_	metric tons	Vec No
	b.	Do you identify all land application sites in Section C of this application?	(I AD should be prepared in
		If no, submit a copy of the Land Application Plan (LAP) with this application	(LAI Should be prepared in
		accordance with the instructions).	No
	c.	Are any land application sites located in States other than Virginia? Yes	
		If yes, describe, on this form or on another sheet of paper, how you notify the	permitting authority for the
		States where the land application sites are located. Provide a copy of the notif	icauon.
	d.	Attach a copy of any information you provide to the owner or lease holder of	the land application sites to
	u.	comply with the "notice and necessary" information requirement of 9 VAC 2:	5-31-530 F and/or H (Examples
		may be obtained in Appendix IV).	
		11	
8.	Surfa	ace Disposal.	
	(Com:	plete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)	
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility	placed on all surface disposal
		sites: O dry metric tons	
	b.	Do you own or operate all surface disposal sites to which you send sewage sh	udge for disposal?
		Yes No	
		If no, answer questions c - g for each surface disposal site that you do not own	n or operate. If you send
		sewage sludge to more than one surface disposal site, attach additional pages	as necessary.
	c.	Site name or number:	
	d.	Contact person:	- RECEIVED
	CL.	Title:	1111 A 2000
		Phone: ()	JAN 0 4 2008
		Contact is: Site OwnerSite operator	
	_	Mailing address.	
	e.		
		Street or P.O. Box: City or Town: State: Zip:	
	~	City or Town: State: Zip: Total dry metric tons per 365-day period of sewage sludge from your facility	placed on this surface disposal
	f.	Total dry metric tons per 303-day period of sewage studge from your facility	praced on and current trop som
		site: dry metric tons	umber as well as the numbers
	g.	List, on this form or an attachment, the surface disposal site VPDES permit n	or disposal practices at the
		of all other federal, state or local permits that regulate the sewage sludge use	or disposal practices at the
		surface disposal site:	
		Permit Number: Type of Permit:	
9.	Incin	eration.	
· ·	(Com	plete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)	
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility	fired in a sewage sludge
		incinerator: dry metric tons	

FACILITY NAME AND PERMIT NUMBER: VA 0067105

Missionary Learning Center

Form Approved 1/14/99 OMB Number 2040-0086

WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

A.9.	De	escription of Outfall.				
	a.	Outfall number	001			
	b.	Location	Rockville		23146	
			(City or town, if applicable) Hanover		(Zip Code) Virginia	
			(County) - 74' - 57'	" N 77° -	- 66' - (State) W	
			(Latitude)		(Longitude)	
	c.	Distance from shore (if a	pplicable)	N/A	ft.	
	d.	Depth below surface (if a	applicable)	N/A	ft.	
	e.	Average daily flow rate			 mgd	
1	f.	Does this outfall have eith	her an intermittent or a periodic	A		
				Yes	No (go to A.9.g.)
		If yes, provide the following	ng information:			
		Number of times per year	r discharge occurs:			
		Average duration of each	discharge:	4-		
		Average flow per discharg	ge:		mgd	
		Months in which discharge occurs:				
	g.	Is outfall equipped with a	diffuser?	Yes	X No	
A .10.	De	scription of Receiving W	aters.			
	а.	Name of receiving water	South Anna	a River		
	b.	Name of watershed (if known	own)	York River		
		United States Soil Conser	rvation Service 14-digit watershe	ed code (if known);		
	C.	Name of State Manageme	ent/River Basin (if known):		A PROPERTY OF THE PROPERTY OF	
		United States Geological	Survey 8-digit hydrologic catalog	ging unit code (if known):		
	d.	Critical low flow of receiving		chronic	cfs	
	e.	Total hardness of receiving stream at critical low flow (if appl		pplicable):	mg/l of CaCO ₃	SCEIVED
						ikal A zana
						JAN 0 4 2008 PRO
						- четорују

FACILITY NAME AND PERMIT NUMBER: VA 0067105
Missionary Learning Center

A.11. Description of Treatment.	RECEIVE	
	IAN O A 2008	danie,

a.	What levels of treatment are provided? Check all that apply.	JAN 0 4 2008 .
	Primary X Secondary Advanced Other Describe:	PRO
b.	Indicate the following removal rates (as applicable):	
٠.	Design BOD, removal or Design CBOD, removal	90 %
	Design SS removal	90 %

Design SS removal

Design P removal

Design N removal

Other NH3

c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe.

Chlorination

If disinfection is by chlorination, is dechlorination used for this outfall?

X Yes No

Does the treatment plant have post aeration?

X Yes No

A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart.

Outfall number: 001

PARAMETER	MAXIMUI	M DAILY VALUE	AVERAGE DAILY VALUE			
= we will be a second	Value	Unils .	Value		Number of Samples	
pH (Minimum)	7.0	S.U.	自然是一个		[6] (1) (1)	
pH (Maximum)	8.5	s.v.	西州 沙州	经上出提到	"这一样规则	
Flow Rate	0.044	MGD	0.016	MGD	365	
Temperature (Winter)	120	Deg C	12	Deg C	3	
Temperature (Summer)	240	Deg C	24	Deg C	3	

* For pH please report a minimum and a maximum daily value ML/MDL MAXIMUM DAILY AVERAGE DAILY DISCHARGE ANALYTICAL POLLUTANT DISCHARGE METHOD Number of Units Units Conc. Conc. Samples CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. BIOCHEMICAL OXYGEN | BOD-5 5210 B 3.08 MG/L 12 MG/L 22.0 CBOD-5 DEMAND (Report one) 9221E MPN/100NL FECAL COLIFORM 160.2 3.89 MG/L MG/L TOTAL SUSPENDED SOLIDS (TSS)

END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE



LONG AND ASSOCIATES

And the Comments

And the Comments

Show the Comments

And the Com

January 3, 2008

Virginia R. E. Kelly, E1T Environmental Engineer Department of Environmental Quality Piedmont Regional Office 4949-A Cox Road Glen Allen, Virginia 23060 Phone (804) 527-5020 Fax (804) 527-5106 WWW.deq.virginia.gov

Ms. Virginia R.E. Kelly, EIT

We are requesting a waiver on the time element for the feeal coli form sampling. We have three separate samplings for the feeal coli form but are not within the time frame that is required. The three samples that we have are all in the same month and not spaced out the required four to eight months.

Cody Long /

Long and Associates Environmental



Long & Associates Attn: Cody Long P.O. Box 300 Aylett, VA 23009-0300 Analytical Summary

10357 Old Keelon Road Ashtono, Virginio 23005 Phone 804 550 3971 Fax 804 550 3828

Project Name :

Missionary Learning Center August 16. 2007 August 16. 2007 Date Received: Date Sampled :

11:31 Time Sampled :

August 20. 2007 Date Issued :

Lab # 1(A)/Sample ID Parameter Fecal Coliform	Result Units DL 08-16/1450 08-18/1455 9221E S	<u>llyst</u> SET

BDL = Below Detection Limit All methods are 40 CFR 136 March 12, 2007, Table IB approved. Reference to Standard Methods is 18th ed.

Carrie E. Sisk QA Coordinator

R7874444-1

RECEIVED

'AN 0 4 2008



Long & Associates Attn: Cody Long P.O. Box 300

Aylett, VA 23009-0300

Analytical Summary

10357 Old Keeton Road Ashland, Virginia 23005 Phone 804 550 3971 Fax 604 550 3826

Project Name: Missionary Learning Center

Date Received: August 20, 2007 Date Sampled: August 20, 2007

Time Sampled: 13:45

Date Issued : August 23, 2007

Lab # 1(A)/Sample ID Parameter	: Final Result	Units DL	Date/Time Prepared	Date/Time Analyzed Method	_Analyst
Fecal Coliform		MPN/100ml 2	08-20/1535	08-22/1400 9221E	SET
			minie Lateral		
			dispersion of		

BDL = Below Detection Limit All methods are 40 CFR 136 March 12, 2007, Table IB approved. Reference to Standard Methods is 18th ed.

Carrie E. Sisk QA Coordinator

R7874483-1

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14N Q 4 7008



Long & Associates Attn: Cody Long P.O. Box 300 Aylett. VA 23009-0300

Analytical Summary

10357 Old Keeton Road Ashlong, Virginia 23005 Phone 804 550 3971 tox 804 850 3826

Project Name :

Missionary Learning Center August 27, 2007 August 27, 2007 Date Received: Date Sampled : Time Sampled :

10:40

August 31. 2007 Date Issued :

Lab # 1(A)/Sample ID Parameter Fecal Coliform	: Final <u>Result</u> < 2	Units MPN/100ml	Date/Time DL Prepared 2 08-27/1500	Date/Time Analyzed Method Analyst 08 29/1425 9221E SET

BDL = Below Detection Limit All methods are 40 CFR 136 March 12, 2007, Table IB approved. Reference to Standard Methods is 18th ed.

Carrie E. Sisk QA Coordinator

R7874600-1

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JAN 0 4 2003



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

PIEDMONT REGIONAL OFFICE

4949-A Cox Road, Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 www.deq.virginia.gov

RECEIVED DEC 102007

David K. Paylor Director

Gerard Seelev, Jr. Regional Director

July 3, 2007

Mr. Gary Beaty, Facility Director Missionary Learning Center WWTP 16492 Missionary Learning Center Lane Rockville, Virginia 23146

RE: Reissuance of VPDES Permit No. VA0067105, Missionary Learning Center

WWTP

Dear Mr. Beaty:

L. Preston Bryant, Jr.

Secretary of Natural Resources

This letter is to remind you that your VPDES permit will expire on July 13, 2008. If you wish to continue discharging, you must reapply for the permit. The State Water Control Board's VPDES Permit Regulation requires that we receive a complete application at least 180 days before the existing permit expires. The deadline for submitting the application is January 13, 2008. Early submissions are welcome and will better enable us to complete processing before permit expiration. The instructions and application forms are enclosed.

If you would like to request a waiver from any of the sampling or testing requirements in the application forms, you must submit your application and a thorough justification for the request at least 240 days prior to the exiting permit's expiration date. These waiver requests must be approved by DEQ and the U.S. EPA at least 180 days before the existing permit expires. DEQ will review your waiver request and, if it is justified, forward it to EPA. Failure to submit the waiver request by the 240 day deadline will result in the waiver being denied.

Upon completing the application, return the original and three copies to the Piedmont Regional Office at the above address and mail one copy to the Virginia Department of Health, Office of Water Programs, Environmental Engineering Field Office, 300 Turner Rd, Richmond, VA 23225.

Also note that DEQ has launched an e-DMR program that allows you to submit effluent data electronically. If you are interested in participating in this program please visit the following website for details: http://www.deg.virginia.gov/water/edmrfag.html.

Reissuance reminder Permit No.: VA0067105

Page 2 of 2

Please contact me at (804) 527-5081 or cdchamberlain@deq.virginia.gov if you have any questions.

Sincerely,

Corwin Chamberlain

Environmental Specialist II

Enclosures: Form 2A & Instructions

Sludge Application & Instructions VPDES Permit Application Addendum

Environmental Excellence Card Paper Work Reduction Act Notice

VPDES Permit Application Addendum

1. Entity to whom the permit is to be issued: International Mission Board
Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? The may or may not be the facility or property owner.
2. Is this facility located within city or town boundaries? x½/N
3. What is the tax map parcel number for the land where this facility is located? $\frac{7729-45-8653}{}$
4. For the facility to be covered by this permit, how many acres will be disturbed during the next f years due to new construction activities? None
5. ALL FACILITIES: What is the design average flow of this facility?040MGD Industrial facilities: What is the max. 30-day avg. production level (include units)?N/A
In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? XX/N
If "Yes", please specify the other flow tiers (in MGD) or production levels:
Please consider: Is your facility's design flow considerably greater than your current flow? Do you plan to expand operations during the next five years?
6. Nature of operations generating wastewater:
100% of flow from domestic connections/sources Number of private residences to be served by the wastewater treatment facilities: _x0 _ 1-49 _ sor more
0 % of flow from non-domestic connections/sources
7. Mode of discharge : X ContinuousIntermittentSeasonal Describe frequency and duration of intermittent or seasonal discharges:
8. Identify the characteristics of the receiving stream at the point just above the facility's discharge point:
9. Approval Date(s): O & M Manual 09/20/00 Sludge/Solids Management Plan 09/20/00
Have there been any changes in your operations or procedures since the above approval dates? Y /(
10. What is the average hardness of the effluent that you discharge? 81 mg/L

ADDENDUM Paperwork Reduction Act Notice

Collection of this information is governed by the Paperwork Reduction Act, and has been approved by the Office of Management and Budget (OMB) in accordance with 5 CFR 1320. The OMB approval number is 2040-0086, expiring May 31, 1992. The public reporting burden for each Application for Permit to Discharge Wastewater is estimated as follows:

Standard Form A

Public reporting burden for this collection of information is estimated to be an average of 15 hours, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Short Form A

Public reporting burden for this collection of information is estimated to be an average of <u>l hour</u>, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Form 1

Public reporting burden for this collection of information is estimated to be an average of <u>3 hours</u>, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Form 2b

Public reporting burden for this collection of information is estimated to be an average of <u>6 hours</u>, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Form 2c

Public reporting burden for this collection of information is estimated to be a weighted average for all major and minor facilities of 33 hours, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Form 2d

Public reporting burden for this collection of information is estimated to vary from a range of 32 hours as an average per response for some minor facilities, to 46 hours as an average per response for some major facilities, with a weighted average for major and minor facilities of 33.2 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Form 2e

Public reporting burden for this collection of information is estimated to be an average of 14 hours, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Send comments regarding these burden estimates or any other aspect of this collection, including suggestions for reducing this burden, to the Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Paperwork Reduction Act Project (2040-0086), Office of Management and Budget, Washington, DC 20503.

This addendum should accompany EPA Forms 7550-22, 7550-6, 3510-1, 3510-2B, 3510-2C, 3510-2D, and 3510-2E.

FACILITY NAME: Missionary Learning Center VPDES PERMIT NUMBER: VA 0067105

SECTION A. GENERAL INFORMATION

•	Facilit	y Information.
	a.	Facility name: Missionary Learning Center
	b.	Contact person: William Word
		Title: Maintenance Manager
		Phone: () (804) 620-3838
	c.	Mailing address:
		Street or P.O. Box: 16492 MLC Lane
		City or Town: Rockville State: VA Zip: 23146
	d.	Facility location:
		Street or Route #: 16492 MLC Lane
		County: Hanover
		City or Town: Rockville State: VA Zip: 23146
	e.	Is this facility a Class I sludge management facility? Yes XNo
	f.	Facility design flow rate: 0.04 mgd
	g.	Total population served: 1370 MAX
	h.	Indicate the type of facility:
		Publicly owned treatment works (POTW)
		x Privately owned treatment works
		Federally owned treatment works
		Blending or treatment operation
		Surface disposal site
		Other (describe):
	Applica	ant Information. If the applicant is different from the above, provide the following
	a.	Applicant name: N/A
	b.	Mailing address:
		Street or P.O. Box:
		City or Town: State: Zip:
	c.	Contact person:
		"Yr' 4.5"

3. Permit Information.

đ.

e.

Phone: ()_

All applicants must complete this section.

a. Facility's VPDES permit number (if applicable): VA 0067105

Is the applicant the owner or operator (or both) of this facility?

applicant

b. List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices:

owner operator
Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)

Permit Number:	Type of Permit:
None	· · · · · · · · · · · · · · · · · · ·

4. Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this facility occur in Indian Country? __Yes _x No If yes, describe:

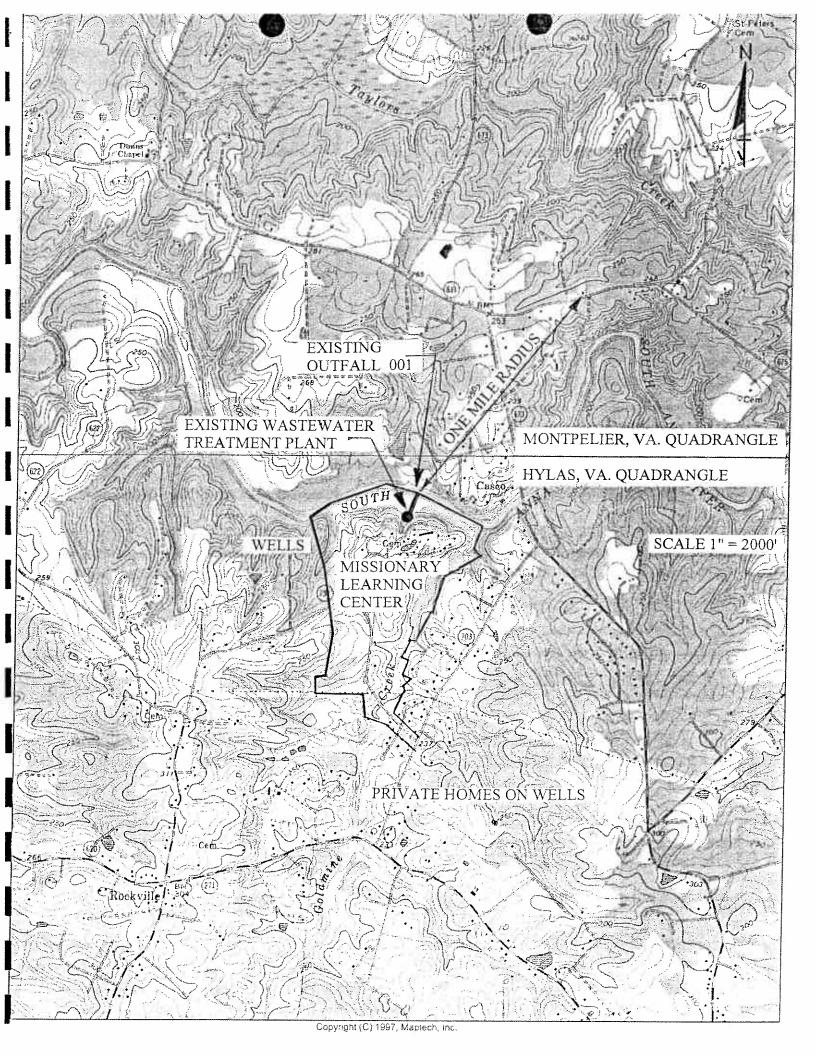
- 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
 - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
 - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.
- Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge 7. generation, treatment, use or disposal the responsibility of a contractor? x Yes No If yes, provide the following for each contractor (attach additional pages if necessary). Name: Cody Long, Long & Assoc. Environmental Mailing address: Street or P.O. Box: P.O. Box 300 Aylett State: VA Zip: 23009 City or Town: (804) 769-7668 Phone: () Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge: 00-142-0031 H Transport Only If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

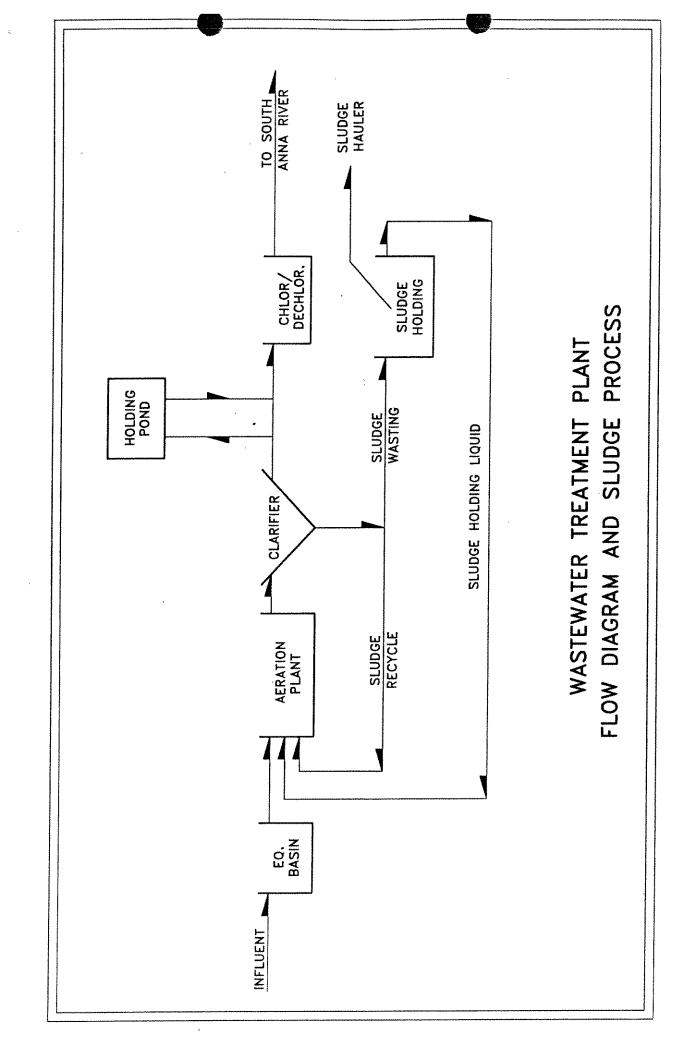
8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic				
Cadmium				
Chromium				
Соррег				
Lead				
Метситу		·		
Molybdenum				
Nickel				
Selenium				
Zinc				

9.	Certification. Read and submit the following certification statement with this application. Refer to the instructions of determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:
	Section A (General Information) Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge) Section C (Land Application of Bulk Sewage Sludge) Section D (Surface Disposal)

0





FACILITY NAME: Missionary Learning Center

VPDES PERMIT NUMBER: VA 0067105

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official ti	itle Gary	y N. Bea	aty - Fac	ilities	Director
Signature	1. 2)/6	Georgia	Date Signed	19/6	
Telephone number	(804)	620-380) 3		

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

see reused by submitted 104/08

FACILITY NAME: Missionary Learning Center

VPDES PERMIT NUMBER: VA 0067105

SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1.		nnt Generated On Site. dry metric tons per 365-day period generated at your facility: dry metric tons per 365-day period generated at your facility: dry metric tons per 365-day period generated at your facility: dry metric tons per 365-day period generated at your facility: dry metric tons per 365-day period generated at your facility: dry metric tons per 365-day period generated at your facility: dry metric tons per 365-day period generated at your facility: dry metric tons per 365-day period generated at your facility: dry metric tons per 365-day period generated at your facility: dry metric tons per 40,000 gpy per year
2.	dispos	ant Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or sal, provide the following information for each facility from which sewage sludge is received. If you receive ge sludge from more than one facility, attach additional pages as necessary.
	a.	Facility name: None
	b.	Contact Person:
		Title:
		Phone ()
	c.	Mailing address:
		Street or P.O. Box: City or Town: State: Zip:
		City or Town: State: Zip:
	d.	Facility Address:
		(not P.O. Box)
	e.	Total dry metric tons per 365-day period received from this facility: dry metric tons
	f.	Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site
	••	facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:
3.	Treat	ment Provided at Your Facility.
	a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class A Class B X Neither or unknown
	ъ.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge: None
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility?
		Option 1 (Minimum 38 percent reduction in volatile solids)
		Option 2 (Anaerobic process, with bench-scale demonstration)
		Option 3 (Aerobic process, with bench-scale demonstration)
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
		Option 5 (Aerobic processes plus raised temperature)
		Option 6 (Raise pH to 12 and retain at 11.5)
		Option 7 (75 percent solids with no unstabilized solids)
		Option 8 (90 percent solids with unstabilized solids)
		None or unknown
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce
		vector attraction properties of sewage sludge: None
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including
		blending, not identified in a - d above: None
4.	Prepa	ration of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and of Vector Attraction Reduction Options 1-8 (EQ Sludge).
	One o	rage sludge from your facility does not meet all of these criteria, skip Question 4.)
		Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:
	а.	dry metric tons
	b.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? Yes _No

SUBMUUCO Missionary Learning Center FACILITY NAME: Sale or Give-Away in a Bag or Other Container for Application to the Land. (Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this question if sewage sludge is covered in Question 4.) Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility a. for sale or give-away for application to the land: dry metric tons Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or b. given away in a bag or other container for application to the land. Shipment Off Site for Treatment or Blending. (Complete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question does not apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.) Receiving facility name: Hanover County DPU Septage Receiving Facility a. Facility contact: John Cross b. Attendant Title: (804) 559-1954 Phone: (Mailing address: C. Street or P.O. Box: P.O. Box 470 State: City or Town: Hanover 40,000 gpy per year Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: d. metrie vons List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of e. all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices: Permit Number: Type of Permit: None Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your f. facility? Yes x No Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility? X Neither or unknown Class B Class A Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge: Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the g. sewage sludge? Yes X No Which vector attraction reduction option is met for the sewage sludge at the receiving facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) None unknown Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge: None Does the receiving facility provide any additional treatment or blending not identified in f or g above? h. Yes X No If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above: None

If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility

to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.

i.

5.

6.

FAC	ILITY N	AME: Missionary Learning Center VPDES PERMIT NUMBER: VA 0067105
	j	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-
		away for application to the land?Yes _X No
		If yes, provide a copy of all labels or notices that accompany the product being sold or given away.
	k.	Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally
		used for such purposes? X Yes No. If no, provide description and specification on the vehicle used to
		transport the sewage sludge to the receiving facility.
		Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the
		week and the times of the day sewage sludge will be transported. From WWTP to South Nuckols to
		1295 South to Rt. 301 South, left on Richfood Lane then right to Barricade Lane. Monday - Friday 7:30 a.m 3:30 p.m.
		bulliedde Edne: Monday Filday 7.30 a.m 3:30 p.m.
7.	Land	Application of Bulk Sewage Sludge.
• •		olete Question 7.2 if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6;
		ete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)
	a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites: dry
		metric tons
	b.	Do you identify all land application sites in Section C of this application?YesNo
		If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in
		accordance with the instructions).
	c.	Are any land application sites located in States other than Virginia? Yes No
		If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the
		States where the land application sites are located. Provide a copy of the notification.
	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to
		comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples
		may be obtained in Appendix IV).
8.		e Disposal.
	•	lete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal
	ъ.	sites: dry metric tons Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?
	U.	Yes No
		If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send
		sewage sludge to more than one surface disposal site, attach additional pages as necessary.
	c.	Site name or number:
	d.	Contact person:
		Title:
		Phone: ()
		Contact is: Site Owner Site operator
	e.	Mailing address.
		Street or P.O. Box: City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal
	1.	site: dry metric tons
	g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers
	6-	of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the
		surface disposal site:
		Permit Number: Type of Permit:
9.	Inciner	
		te Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge incinerator: dry metric tons
		PAGE MAN HOLLO

FACI	ATY NA	AME: Missionary Learning Center VPDES PERMIT NUMBER: VA 0067105
	b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?
		Yes No
		If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send
		sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.
	c.	Incinerator name or number:
	d.	Contact person:
		Title:
		Phone: ()
		Contact is:Incinerator OwnerIncinerator Operator
	e.	Mailing address.
		Street or P.O. Box: City or Town: State: Zip:
		City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
		incinerator: dry metric tons
	g.	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the
		firing of sewage sludge at this incinerator:
		Permit Number: Type of Permit:
10.	Dienos	sal in a Municipal Solid Waste Landfill.
10.		ete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information
	for each	municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one
		nal solid waste landfill, attach additional pages as necessary.)
	a.	Landfill name:
	b.	Contact person:
		Title:
		Phone: ()
		Contact is: Landfill Owner Landfill Operator
	c.	Mailing address.
		Street or P.O. Box:
		Street or P.O. Box: City or Town: State: Zip:
	d.	Landfill location.
		Street or Route #:
		County:
		City or Town: State: Zip:
	e.	Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill: dry metric tons
	f.	List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the
	1.	operation of this municipal solid waste landfill:
		Permit Number: Type of Permit:
		Tenne Palmett.
	g.	Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9
		VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?
		Yes No
	h.	Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid
		Waste Management Regulation, 9 VAC 20-80-10 et seq.? Yes No
	i.	Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill
		be watertight and covered? Yes No
		Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the
		week and time of the day sewage sludge will be transported.

SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE Complete this section for sewage sludge that is land applied unless any of the following conditions apply: The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead). Complete Section C for every site on which the sewage sludge that you reported in B.7 is land applied. Identification of Land Application Site. 1. Site name or number: Site location (Complete i and ii) b. Street or Route#: County:

City or Town:

Latitude:

Longitude:

State:

Zip:

Longitude: ii. Method of latitude/longitude determination USGS map Filed survey Other
Topographic map. Provide a topographic map (or other appropriate map if a topographic map is ¢. unavailable) that shows the site location. Owner Information. 2. Are you the owner of this land application site? __Yes __No a. If no, provide the following information about the owner: b. Name: Street or P.O. Box:

City or Town:

State:

Zip: Phone: (Applier Information: 3. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site? Yes No If no, provide the following information for the person who applies the sewage sludge: b. Street or P.O. Box:

City or Town:

State:

Zip: Phone: () List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person c. who applies sewage sludge to this land application site: Type of Permit: Permit Number: Site Type. Identify the type of land application site from among the following: 4. Reclamation site Forest
Other. Describe ___A gricultural land Public contact site Vector Attraction Reduction. 5. Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? Yes No If yes, answer a and b. Indicate which vector attraction reduction option is met: ___Option 9 (Injection below land surface)

Describe, on this form or on another sheet of paper, any treatment processes used at the land application site

b.

Option 10 (Incorporation into soil within 6 hours)

to reduce the vector attraction properties of sewage sludge:

FACILITY NAME: Missionary Learning Center VPDES PERMIT NUMBER: VA 0067105 Cumulative Loadings and Remaining Allotments. (Complete Question 6 only if the sewage sludge applied to this site since July 20, 1993 is subject to the cumulative pollutant loading rates (CPLRs) - see instructions.) Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? Yes No If no, sewage sludge subject to the CPLRs may not be applied to this site. If yes, provide the following information: Permitting authority: Contact person: Phone:() Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, b. 1993? Yes No If no, skip the rest of Question 6. If yes, answer questions c - e. (one hectare = 2.471 acres) Site size, in hectares: c. Provide the following information for every facility other than yours that is sending or has sent sewage d. sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. Facility name: Facility contact: Title: Phone: (Mailing address. Street or P.O. Box: State: City or Town: Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: e. Allotment remaining Cumulative loading Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc Complete Questions 7-12 below only if you apply scwage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter. PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Kjeldahl Nitrogen (mg/kg) Total Phosphorus (mg/kg) Total Potassium (mg/kg) Alkalinity as CaCO, (mg/kg) Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO₃.

7.

VPDES PERMIT NUMBER: VA 0067105 Missionary Learning Center FACILITY NAME: Storage Requirements. 8. Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements. Proposed sludge storage facilities must also provide the following information: A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line. Water wells, abandoned or operating 1) Surface waters 2) 3) Springs Public water supply(s) 4) 5) Sinkholes Underground and/or surface mines 6) Mine pool (or other) surface water discharge points 7) Mining spoil piles and mine dumps 8) 9) Quarry(s) Sand and gravel pits 10) Gas and oil wells 11) Diversion ditch(s) 12) Agricultural drainage ditch(s) 13) Occupied dwellings, including industrial and commercial establishments 14) 15) Landfills or dumps Other unlined impoundments 16) Septic tanks and drainfields 17) Injection wells 18) Rock outcrops 19) A topographic map of sufficient detail to clearly show the following information: b. Maximum and minimum percent slopes 1) Depressions on the site that may collect water 2) Drainageways that may attribute to rainfall run-on to or runoff from this site 3) Portions of the site (if any) which are located with the 100-year floodplain and how the storage 4) facility will be protected from flooding Data and specifications for the storage facility lining material. c. Plan and cross-sectional views of the storage facility. d. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the e. permanent water table. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage 9. sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application. Landowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) 10. for each landowner if sewage sludge is to be applied onto land not owned by the applicant. Ground Water Monitoring. 11.

data.

(Complete Items and for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items and for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these

Are any ground water monitoring data available for this land application site?

Yes No

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or
 endangered species or federally designated critical habitat, the applicant must notify the field office of the U.
 S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application
 activities with the identification of the land application sites. The address and phone number of FWS are
 provided below.

U. S. Fish and Wildlife Service Virginia Field Office P. O. Box 480 White Marsh, VA 23183 TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site.

 Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
 - 1). Soil symbol
 - 2). Soil series, textural phase and slope range
 - 3). Depth to seasonal high water table
 - 4). Depth to bedrock
 - 5). Estimated soil productivity group (for the proposed crop rotation)

FACILITY NA	ME: Missionary Learning Cent	er VPDES PERMIT NUMBER: <u>VA 006</u> 710
f.	Collect and analyze soil samples from each field, v	
 ×	performed for Item e. Using the table below or a s	eparate attachment, provide at least one analysis per
	sample for each of the following parameters.	
	Soil Organic Matter (%)	
	Soil pH (std. units)	
	Cation Exchange Capacity (meq/100g)	
	Total Nitrogen (ppm)	
	Organic Nitrogen (ppm)	·
	Ammonia Nitrogen (ppm)	
	Nitrate Nitrogen (ppm)	
	Available Phosphorus (ppm)	
	Exchangeable Potassium (mg/100g)	
	Exchangeable Sodium (mg/100g)	
	Exchangeable Calcium (mg/100g)	
	Exchangeable Magnesium (mg/100g)	···
	Arsenic (ppm)	
	Cadmium (ppm)	
	Copper (ppm)	
	Lead (ppm)	
	Mercury (ppm)	
	Molybdenum (ppm)	
	Nickel (ppm)	
	Selenium (ppm)	
	Zinc (ppm)	
	Manganese (ppm)	
	Particle Size Analysis or	
	USDA Textural Estimate (%)	

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

5

FACILITY NAME: Missionary Learning Center VPDES PERMIT NUMBER: VA 0067105 SEWAGE SLUDGE APPLICATION AGREEMENT This sewage sludge application agreement is made on this date , referred to here as "landowner", and , referred to here as the "Permittee". Landowner is the owner of agricultural land shown on the map attached as Exhibit A and designated there as ("landowner's land"). Permittee agrees to apply and landowner agrees to comply with certain permit requirements following application of sewage sludge on landowner's land in amounts and in a manner authorized by VPDES permit number which is held by the Permittee. Landowner acknowledges that the appropriate application of sewage sludge will be beneficial in providing fertilizer and soil conditioning to the property. Moreover, landowner acknowledges having been expressly advised that, in order to protect public health, the following site restrictions must be adhered to when sewage sludge receives Class B treatment for pathogen reduction: 1. Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge; 2. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for four months or longer prior to incorporation into the soil; 3. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation into the soil; 4. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of sewage sludge; 5. Animals shall not be grazed on the land for 30 days after application of sewage sludge; 6. Turf grown on land where sewage sludge is applied shall not be harvested for one year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the State Water Control Board; Public access to land with a high potential for public exposure shall be restricted for one year after application of 7. sewage sludge; Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years 9. following the application of sewage sludge borne cadmium equal to or exceeding 0.5 kilograms/hectare (0.45 pounds/acre). Permittee agrees to notify landowner or landowner's designee of the proposed schedule for sewage sludge application and specifically prior to any particular application to landowner's land. This agreement may be terminated by either party upon written notice to the address specified below. Landowner: Permittee: Signature Signature Mailing Address Mailing Address

FACILITY NAME: Missionary Learning Center VPDES PERMIT NUMBER: VA 0067105

SECTION D. SURFACE DISPOSAL

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit. Information on Active Sewage Sludge Units. 1. Unit name or number: a. Unit location Ъ. Street or Route#: County:
City or Town:
Latitude:

County:

State:

State:

Longitude: ii. Method of latitude/longitude determination USGS map Filed survey Other Topographic map. Provide a topographic map (or other appropriate map if a topographic map is c. unavailable) that shows the site location. Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period: đ. dry metric tons.

Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit: e. dry metric tons. Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of f. 1 x 10⁻⁷cm/sec? Yes No If yes, describe the liner or attach a description. Does the active sewage sludge unit have a leachate collection system? Yes g. If yes, describe the leachate collection system or attach a description. Also, describe the method used for leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal: If you answered no to either f or g, answer the following: h. Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site? Yes No If yes, provide the actual distance in meters: Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons i. (MM/DD/YYYY) Anticipated closure date for active sewage sludge unit, if known: Provide with this application a copy of any closure plan developed for this active sewage sludge unit. Sewage Sludge from Other Facilities. 2. Is sewage sludge sent to this active sewage sludge unit from any facilities other than yours? Yes No If yes, provide the following information for each such facility, attach additional sheets as necessary. Facility name: a. Facility contact: Ъ. Title: Phone: () Mailing address. ¢. Mailing address.

Street or P.O. Box:

City or Town:

State: Zip: List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other d. federal, state or local permits that regulate the facility's sewage sludge management practices: Type of Permit: Permit Number: Which class of pathogen reduction is achieved before sewage sludge leaves the other facility? e. Class A Class B Neither or unknown Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to f. reduce pathogens in sewage sludge:

g.	AME: Missionary Learning Center VPDES PERMIT NUMBER: VA 006710
	Which vector attraction reduction option is achieved before sewage sludge leaves the other facility?
	Option 1 (Minimum 38 percent reduction in volatile solids)
	Option 2 (Anaerobic process, with bench-scale demonstration)
	Option 3 (Aerobic process, with bench-scale demonstration)
	Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
	Option 5 (Aerobic processes plus raised temperature)
	Option 6 (Raise pH to 12 and retain at 11.5)
	Option 7 (75 percent solids with no unstabilized solids)
	Option 8 (90 percent solids with unstabilized solids)
	None or unknown
h.	Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce
	vector attraction properties of sewage sludge:
	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by
i.	the other facility that are not identified in e - h above:
	the other facility that are not identified in c - h above.
	r Attraction Reduction. Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage
a.	
	sludge unit?
	Option 9 (Injection below land surface)
	Option 10 (Incorporation into soil within 6 hours)
_	Option 11 (Covering active sewage sludge unit daily)
b.	Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge
	unit to reduce vector attraction properties of sewage sludge:
Groun	nd Water Monitoring.
a.	Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water
	monitoring data otherwise available for this active sewage sludge unit? Yes No
	If yes, provide a copy of available ground water monitoring data. Also provide a written description of the
	well locations, the approximate depth to ground water, and the ground water monitoring procedures used to
	obtain these data.
	1.1 50
b.	Has a ground water monitoring program been prepared for this active sewage sludge unit?
b.	Has a ground water monitoring program been prepared for this active sewage sludge unit? Yes No If yes, submit a copy of the ground water monitoring program with this application.
b. c.	Has a ground water monitoring program been prepared for this active sewage sludge unit? Yes No If yes, submit a copy of the ground water monitoring program with this application. Have you obtained a certification from a qualified ground water scientist that the aquifer below the active
	Has a ground water monitoring program been prepared for this active sewage sludge unit? YesNo If yes, submit a copy of the ground water monitoring program with this application. Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated?YesNo
	Has a ground water monitoring program been prepared for this active sewage sludge unit? Yes No If yes, submit a copy of the ground water monitoring program with this application. Have you obtained a certification from a qualified ground water scientist that the aquifer below the active
c. Site-S	Has a ground water monitoring program been prepared for this active sewage sludge unit? YesNo If yes, submit a copy of the ground water monitoring program with this application. Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated?YesNo If yes, submit a copy of the certification with this application.
c. Site-S	Has a ground water monitoring program been prepared for this active sewage sludge unit? YesNo If yes, submit a copy of the ground water monitoring program with this application. Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated?YesNo

Missionary Learning Center

FORM

2A NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

Missionary Learning Center

BASIC APPLICATION INFORMATION

RTAL BASIC APP	LICATION INFORMATION FOR ALL A	PPLICANTS:	
treatment works mus	complete questions A.1 through A.8 of this	Basic Application Information packet	and a resolution of the sales
I. Facility Information	1.		
Facility name	Missionary Learning	Center	
Mailing Address	16492 MLC Lane		
Waling Available	Rockville, VA 2314	6	
Contact person	William Word	,	
Title	Maintenance Manager		
Telephone number	(804) 620-3838		
Facility Address	16492 MLC Lane		
(not P.O. Box)	Rockville, VA 2314	6	
2. Applicant Informat	ion. If the applicant is different from the above,	provide the following:	
Applicant name			
Mailing Address			
Contact person			
Title			
Telephone number			
Is the applicant the	e owner or operator (or both) of the treatmen	nt works?	
x owner	operator		
Indicate whether cor	respondence regarding this permit should be di	rected to the facility or the applicant.	
X facility	applicant		
3. Existing Environm	ental Permits. Provide the permit number of a	ny existing environmental permits that have	e been issued to the treatment works
(include state-issued	0067105	PSD	
M 020			
4 Callastian System	Information. Provide information on municipal provide information on the type of collection sys	lities and areas served by the facility. Prov	ide the name and population of each
entity and, if known,	Population Served	Type of Collection System	Ownership
	Learning Ctr. 1,370	Private Sanitary	Foreign Mission Board of the
ETT SO TOTAL Y	200221223	Sewer	Southern Baptis
	4444		Convention
	1.370	A6.000.000	
Total po	opulation served 1,370		

FACILITY NAME AND PERMIT NUMBER: VA 0067105 Form Approved 1/14/99 OMB Number 2040-0086 Missionary Learning Center A.5. Indian Country. a. Is the treatment works located in Indian Country? Yes b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country? X No Yes A.6. Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal. a. Design flow rate 0.04 mod Two Years Ago Last Year This Year .013 .010 0.016 b. Annual average daily flow rate mad .043 0.044 .049 Maximum daily flow rate mgd A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each. X Separate sanitary sewer 100 Combined storm and sanitary sewer A.8. Discharges and Other Disposal Methods. a. Does the treatment works discharge effluent to waters of the U.S.? X Yes If yes, list how many of each of the following types of discharge points the treatment works uses: i. Discharges of treated effluent ii. Discharges of untreated or partially treated effluent iii. Combined sewer overflow points iv. Constructed emergency overflows (prior to the headworks) Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? Yes If yes, provide the following for each surface impoundment: N/A N/A Annual average daily volume discharged to surface impoundment(s) continuous or intermittent? c. Does the treatment works land-apply treated wastewater? Yes If yes, provide the following for each land application site: Location: Number of acres: Annual average daily volume applied to site: continuous or Is land application intermittent? d. Does the treatment works discharge or transport treated or untreated wastewater to another X No treatment works?

Yes

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If transport is by a party	other than the applicant, provide:			
Transporter name:	N/A			·····
Mailing Address:				
Contact person:				
Title:				
Telephone number:				
Name:	N/A			
Mailing Address:				
Mailing Address:				
Contact person:				
Contact person: Title: Telephone number:				
Contact person: Title: Telephone number: If known, provide the NF	DES permit number of the treatment works that receives this discharge.			
Contact person: Title: Telephone number: If known, provide the NF				mgc
Contact person: Title: Telephone number: If known, provide the NF Provide the average dail	DES permit number of the treatment works that receives this discharge.	Yes	x	mgc No
Provide the average dail Does the treatment work A.8.a through A.8.d abo	DES permit number of the treatment works that receives this discharge. y flow rate from the treatment works into the receiving facility. s discharge or dispose of its wastewater in a manner not included in		X	-
Contact person: Title: Telephone number: If known, provide the NF Provide the average dail Does the treatment work A.8.a through A.8.d about yes, provide the follow	DES permit number of the treatment works that receives this discharge. y flow rate from the treatment works into the receiving facility. s discharge or dispose of its wastewater in a manner not included in ve (e.g., underground percolation, well injection)?		X	-

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WAST	FWA'	TER	DISCHA	ARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

.9. D	Description of Outfall.						
a.	. Outfall number	001					
b.	. Location	Rockville					146
		(City or town, if applicab Hanover	le)			Vi	(Zip Code) rginia
		(County) - 74'	- 57"	' N	77 ⁰ -	- 66'	- ^(State) " W
		(Latitude)					(Longitude)
C.	. Distance from shore (i	f applicable)		N,	/A	ft.	
d.	. Depth below surface (if applicable)		N,	/A	ft.	
e.	. Average daily flow rate					mgd	
f.	Does this outfall have discharge?	either an intermittent or a p	eriodic		Vaa		No. (no to A O m)
	If yes, provide the follo	wing information		<u> </u>	Yes		No (go to A.9.g.)
	n yes, provide the road	wing internation.					
	Number of times per y	ear discharge occurs:				***************************************	
	Average duration of ea	ich discharge:					
	Average flow per disch	_	•				mgd
	Months in which disch	arge occurs:					***************************************
g.	. Is outfall equipped with	a diffuser?			Yes	x	No
10. D	escription of Receiving	Waters.					
a.	. Name of receiving water	s South	Anna	a Rive	r		
	• • • • • • • • • • • • • • • • • • •	**************************************		York	Divor		
b.	Name of watershed (if	known)		TOLK	IXT A G T	· · · · · · · · · · · · · · · · · · ·	
	United States Soil Con	servation Service 14-digit	watershe	d code (if k	nown):		
C.	Name of State Manage	ement/River Basin (if know	n):				
	United States Geologic	al Survey 8-digit hydrolog	ic catalog	ing unit cod	e (if known):		
		iving stream (if applicable cfs):	chro	nic	C,	fs
đ.			flour (if no				
d. e.		iving stream at critical low	HOW III AL	プロドレスひじじょ			0104003

Missionary Learning Center

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. Description of								
a. What levels	of treatment are	provi de d? Ch	eck all that ap	pply.				•
	Primary		X Seco	ondary				
	Advanced	***************************************	Othe	er. Describe:				
b. Indicate the	following remov	al rates (as ap	plicable):					
Design BO	D _s removal <u>or</u> D∈	esign CB O D _s r	emoval			90	%	
Design SS	removal				4	90	%	
Design P re	moval						%	
Design N re	moval				<u> </u>		%	
Other	NH3				<u> </u>	90	%	
c. What type	of disinfection is	used for the el	ffluent from th	is outfall? If disinf	ection varies b	y season, plea	ise describe.	
	orinatio							
	on is by chlorinat		ination used fo	or this outfall?	_	XY	es <u> </u>	No No
	eatment plant ha					х ү	es	No
parameters. Padischarged. Discharged throat 40 CFR Part 13 minimum, efficiency	rovide the indiction on the include in one of include in ugh analysis con 66 and other appears testing dat	cated effluent information or inducted usin propriate QA a must be ba	testing required sing 40 CFR Pa /OC required	ired by the perm sewer overflows art 136 methods. nents for standa	in this section in this section, the addition, the thick the think	nty <u>for each o</u> n. All informa this data mus or analytes no	ition reported materials to the comply with Control of the comply with Control of the control of	a for the following which effluent is nust be based on da QA/QC requirements 40 CFR Part 136. Which half years apart.
parameters. P. discharged. D collected through 40 CFR Part 13 minimum, efflu Outfall numbers	rovide the indiction on the include in the include	ated effluent information or inducted usin propriate QA a must be ba	testing requincements to the combined sing 40 CFR Parage (QC required sed on at lease	ired by the perm sewer overflows art 136 methods. nents for standa	in this section in this section, the addition, the thick the think	ty <u>for each or</u> n. All informathis data mustor analytes no eno more that	ition reported materials to the comply with Control of the comply with Control of the control of	nust be based on da QA/QC requirements 4 40 CFR Part 136. A -half years apart.
parameters. P. discharged. D collected through 40 CFR Part 13 minimum, efflu Outfall numbers	rovide the indiction on the include in one of include in ugh analysis con 66 and other appears testing dat	ated effluent information or inducted usin propriate QA a must be ba	testing requincements to the combined sing 40 CFR Parage (QC required sed on at lease	ired by the perm sewer overflows art 136 methods. nents for standa ast three sample	in this section in this section, the addition, the thick the think	ty for each on the control of the co	trion reported in t comply with 0 of addressed by in four and one	nust be based on da QA/QC requirements 4 40 CFR Part 136. A -half years apart.
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END OF PART A. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

Missionary Learning Center

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N/A

BASIC APPLICATION INFORMATION

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PAF	रा	B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).
Alla	ppľ	icants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).
B.1.		nflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. gpd triefly explain any steps underway or planned to minimize inflow and infiltration.
B.2.	m	opographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire rea.)
	a.	. The area surrounding the treatment plant, including all unit processes.
	b.	. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	C.	Each well where wastewater from the treatment plant is injected underground.
	d.	. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e.	. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f.	If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
B.3.	po de	ocess Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup wer sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and chlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between atment units. Include a brief narrative description of the diagram.
	-	peration/Maintenance Performed by Contractor(s).
		e any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a ntractor?YesNo
		res, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages necessary).
	Na	me:
	Ма	ailing Address:
	Tel	lephone Number:
	Re	sponsibilities of Contractor:
	uno trea	heduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or completed plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the atment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for ch. (If none, go to question B.6.)
	a.	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
	b.	Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

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N/A

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	o is "Yes," bneffy	describe, includi	ng new maximu	m daily inflow rate	e (if applicable).		
	4-4					yaangana.	
 d. Provide dates impose For improvements plendicate dates as ac 	anned independ	ently of local, Sta	r any actual date te, or Federal aç	es of completion fo gencies, indicate p	or the implement planned or actua	ation steps listed below completion dates, as	v, as applicable. applicable.
		Schedule	Þ	ctual Completion			
Implementation Stag	e	MM / DD / \	<u> </u>	M/DD/YYYY			
- Begin construction	ŀ						
- End construction							
- Begin discharge							
- Attain operational l	evel		Approximation and the second s				
e. Have appropriate pe	rmits/dearances	concerning other	r Federal/State	requirements beer	n obtained?	YesNo	
Describe briefly:							
سمع							
3.6. EFFLUENT TESTING DA Applicants that discharge							
data must comply with C	1.400 41						
addressed by 40 CFR Pand one-half years old. Outfall Number:	MAXIMU	IM DAILY		be based on at le	east three polluta	int scans and must be	no more than four
and one-half years old. Outfall Number:	MAXIMU DISCI	IM DAILY JARGE	AVERA	be based on at le	east three polluta	ANALYTICAL	no more than four
and one-half years old. Outfall Number:	MAXIMU	IM DAILY		be based on at le	east three polluta		no more than four
and one-half years old. Outfall Number: POLLUTANT	MAXIML DISCF Conc.	IM DAILY JARGE Units	AVERA	be based on at le	HARGE Number of	ANALYTICAL	no more than four
and one-half years old. Outfall Number: POLLUTANT ONVENTIONAL AND NONCO	MAXIML DISCF Conc.	IM DAILY JARGE Units	AVERA	be based on at le	HARGE Number of	ANALYTICAL	no more than rour
and one-half years old. Outfall Number: POLLUTANT ONVENTIONAL AND NONCOMMONIA (as N) HLORINE (TOTAL	MAXIML DISCF Conc.	IM DAILY JARGE Units	AVERA	be based on at le	HARGE Number of	ANALYTICAL	no more than rour
and one-half years old. Outfall Number: POLLUTANT ONVENTIONAL AND NONCOMMONIA (as N) CHLORINE (TOTAL RESIDUAL, TRC)	MAXIML DISCF Conc.	IM DAILY JARGE Units	AVERA	be based on at le	HARGE Number of	ANALYTICAL	no more than rour
and one-half years old. Outfall Number: POLLUTANT ONVENTIONAL AND NONCO MMONIA (as N) HLORINE (TOTAL ESIDUAL, TRC) ISSOLVED OXYGEN OTAL KJELDAHL	MAXIML DISCF Conc.	IM DAILY JARGE Units	AVERA	be based on at le	HARGE Number of	ANALYTICAL	no more than rour
and one-half years old. Outfall Number: POLLUTANT ONVENTIONAL AND NONCO MMONIA (as N) HLORINE (TOTAL ESIDUAL, TRC) ISSOLVED OXYGEN OTAL KJELDAHL ITROGEN (TKN) ITRATE PLUS NITRITE	MAXIML DISCF Conc.	IM DAILY JARGE Units	AVERA	be based on at le	HARGE Number of	ANALYTICAL	no more than rour
and one-half years old. Outfall Number: POLLUTANT ONVENTIONAL AND NONCO MMONIA (as N) HLORINE (TOTAL ESIDUAL, TRC) ISSOLVED OXYGEN OTAL KJELDAHL ITROGEN (TKN) ITRATE PLUS NITRITE ITROGEN	MAXIML DISCF Conc.	IM DAILY JARGE Units	AVERA	be based on at le	HARGE Number of	ANALYTICAL	no more than rour
and one-half years old. Outfall Number: POLLUTANT ONVENTIONAL AND NONCO MMONIA (as N) HLORINE (TOTAL ESIDUAL, TRC) ISSOLVED OXYGEN OTAL KJELDAHL ITROGEN (TKN) ITRATE PLUS NITRITE ITROGEN OIL and GREASE	MAXIML DISCF Conc.	IM DAILY JARGE Units	AVERA	be based on at le	HARGE Number of	ANALYTICAL	no more than rour
and one-half years old. Outfall Number: POLLUTANT ONVENTIONAL AND NONCO MMONIA (as N) HLORINE (TOTAL ESIDUAL, TRC) IISSOLVED OXYGEN OTAL KJELDAHL IITROGEN (TKN) IITRATE PLUS NITRITE IITROGEN OIL and GREASE HOSPHORUS (Total) OTAL DISSOLVED	MAXIML DISCF Conc.	IM DAILY JARGE Units	AVERA	be based on at le	HARGE Number of	ANALYTICAL	no more than rour
and one-half years old. Outfall Number: POLLUTANT POLLUTANT ONVENTIONAL AND NONCO MMONIA (as N) CHLORINE (TOTAL ESIDUAL, TRC) DISSOLVED OXYGEN OTAL KJELDAHL ITROGEN (TKN) ITRATE PLUS NITRITE ITROGEN OIL and GREASE CHOSPHORUS (Total) OTAL DISSOLVED COLIDS (TDS)	MAXIML DISCF Conc.	IM DAILY JARGE Units	AVERA	be based on at le	HARGE Number of	ANALYTICAL	no more than rour
and one-half years old. Outfall Number.	MAXIML DISCF Conc.	M DAILY HARGE Units COMPOUNDS.	AVERA	GE DAILY DISC	HARGE Number of	ANALYTICAL	no more than rour

2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER: VA 0067105 Missionary Learning Center

UMBER: VA 0067105 Form Approved 1/14/99
oing Center OMB Number 2040-0086

PART C. CERTIFICATION		
applicants must complete all applica	able sections of Fo signing this certification	. Refer to instructions to determine who is an officer for the purposes of this certification. All purposes of this certification. All purposes are application of the Application Overview. Indicate below which parts of Form 2A you have allow statement, applicants confirm that they have reviewed Form 2A and have completed all sections ibmitted.
Indicate which parts of Form	n 2A you have co	ompleted and are submitting:
X Basic Application Infon	mation packet	Supplemental Application Information packet:
		Part D (Expanded Effluent Testing Data)
		Part E (Toxicity Testing: Biomonitoring Data)
		Part F (Industrial User Discharges and RCRA/CERCLA Wastes)
ı		Part G (Combined Sewer Systems)
ALL APPLICANTS MUST COMPL		DWING CERTIFICATION.
to assure that qualified personnel pressystem or those persons directly res	operly gather and sponsible for gathe	If attachments were prepared under my direction or supervision in accordance with a system designe evaluate the information submitted. Based on my inquiry of the person or persons who manage the ering the information, the information is, to the best of my knowledge and belief, true, accurate, and lies for submitting false information, including the possibility of fine and imprisonment for knowing
Name and official title	`/ //	Beaty - Facilities Director
Signature	- (() ·)	
	(804) 62	0-3803
Telephone number		

SEND COMPLETED FORMS TO:

Missionary Learning Center

Form Approved 1/14/99 OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other Information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

(Complete once for each outfall discharging effluent to waters of the United States.) Outfall number: MAXIMUM DAILY AVERAGE DAILY DISCHARGE POLLUTANT DISCHARGE ANALYTICAL ML/ MDL Units Units: Number Mass Conc. | Units | Mass | Units | Conc. METHOD of Samples METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS. ANTIMONY ARSENIC BERYLLIUM CADMIUM CHROMIUM COPPER LEAD MERCURY **NICKEL SELENIUM** SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS HARDNESS (AS CaCO₃) Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.

Missionary Learning Center

Outfall number:									United Stat			
POLLUTANT	100 a	DISCI	HARGE	ARGE					ARGE	AVAIATION NO LINE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL	
VOLATILE ORGANIC COMPOUNDS.		21.840.442					12222222		- campies»			
ACROLEIN						**************************************						
ACRYLONITRILE												
BENZENE												
BROMOFORM												
CARBON TETRACHLORIDE												
CLOROBENZENE												
CHLORODIBROMO-METHANE												
CHLOROETHANE												
2-CHLORO-ETHYLVINYL ETHER												
CHLOROFORM												
DICHLOROBROMO-METHANE												
1,1-DICHLOROETHANE												
1,2-DICHLOROETHANE												
TRANS-1,2-DICHLORO-ETHYLENE			***************************************									
1,1-DICHLOROETHYLENE												
1,2-DICHLOROPROPANE												
1,3-DICHLORO-PROPYLENE												
ETHYLBENZENE												
METHYL BROMIDE												
METHYL CHLORIDE			***************************************									
METHYLENE CHLORIDE												
1,1,2,2-TETRACHLORO-ETHANE												
TETRACHLORO-ETHYLENE												
TOLUENE									***************************************			

Missionary Learning Center

Outfall number:									United State	es.)	
POLLUTANT	, h		IM DAIL) IARGE	1	- A\	'ERAGE	DAILY	DISCH/	ARGE		
	Conc.		Mass	Units	Conc.	Units	Mass	Units	Number of	ANALYTICAL METHOD	ML/MDL
	4 6 6	10.14							Samples		
1,1,1-TRICHLOROETHANE											
1,1,2-TRICHLOROETHANE											
TRICHLORETHYLENE											
VINYL CHLORIDE									4 -		
Use this space (or a separate sheet) to	provide in	formation	on other	volatile o	rganic con	npounds	requested	by the p	ermit writer.	T	
ACID-EXTRACTABLE COMPOUNDS					4					1	
P-CHLORO-M-CRESOL											
2-CHLOROPHENOL											
2,4-DICHLOROPHENOL							.,				
2,4-DIMETHYLPHENOL											
4,6-DINITRO-O-CRESOL											
2,4-DINITROPHENOL											
2-NITROPHENOL											
4-NITROPHENOL											
PENTACHLOROPHENOL											
PHENOL											
2,4,6-TRICHLOROPHENOL								<u></u>			
Use this space (or a separate sheet) to	provide in	formation	n on other	acid-ext	actable co	mpound:	s requeste	ed by the	permit writer		
											<u></u>
BASE-NEUTRAL COMPOUNDS.											1
ACENAPHTHENE		-									
ACENAPHTHYLENE											
ANTHRACENE											
BENZIDINE											
BENZO(A)ANTHRACENE			No micros was a second					**************************************			

•	l					
BENZO(A)PYRENE						
		İ	[

VA 0067105

Missionary Learning Center

Form Approved 1/14/99 OMB Number 2040-0086

Outfall number: (Complete once for each outfall discharging effluent to waters of the United States.)											
POLLUTANT	MAXIMUM DAILY DISCHARGE			AVERAGE DAILY DISCHARGE							
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
3,4 BENZO-FLUORANTHENE											
BENZO(GHI)PERYLENE											
BENZO(K)FLUORANTHENE											
BIS (2-CHLOROETHOXY) METHANE											
BIS (2-CHLOROETHYL)-ETHER											
BIS (2-CHLOROISO-PROPYL) ETHER											
BIS (2-ETHYLHEXYL) PHTHALATE											
4-BROMOPHENYL PHENYL ETHER											
BUTYL BENZYL PHTHALATE											
2-CHLORONAPHTHALENE											
4-CHLORPHENYL PHENYL ETHER											, <u> </u>
CHRYSENE											
DI-N-BUTYL PHTHALATE											
DI-N-OCTYL PHTHALATE											
DIBENZO(A,H) ANTHRACENE											
1,2-DICHLOROBENZENE											
1,3-DICHLOROBENZENE											
1,4-DICHLOROBENZENE											
3,3-DICHLOROBENZIDINE			` .								
DIETHYL PHTHALATE											
DIMETHYL PHTHALATE											
2,4-DINITROTOLUENE											
,6-DINITROTOLUENE											r

1,2-DIPHENYLHYDRAZINE											
FACILITY NAME AND PERMIT NUMBER: VA 0067105 Form Approved 1/14/99 OMB Number 2040-0086											
Missionary Learning Center											
Outfall number:(Complete once for each outfall discharging effluent to waters of the United States.)											
POLLUTANT	POLLUTANT MAXIMUM DAILY DISCHARGE			AVERAGE DAILY DISCHARGE Conc. Units Mass Units Number					and the second		
Service Control of the Control of th	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL
FLUORANTHENE											
FLUORENE											
HEXACHLOROBENZENE			*····								
HEXACHLOROBUTADIENE											
HEXACHLOROCYCLO- PENTADIENE											
HÉXACHLOROETHANE											
INDENO(1,2,3-CD)PYRENE											
ISOPHORONE											
NAPHTHALENE											
NITROBENZENE											
N-NITROSODI-N-PROPYLAMINE										***************************************	
N-NITROSODI- METHYLAMINE											
N-NITROSODI-PHENYLAMINE											
PHENANTHRENE											
PYRENE											

END OF PART D.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer.

Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer.

1,2,4-TRICHLOROBENZENE

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SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two
 species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results
 show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include
 information or combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted
 using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate
 QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test
 conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a
 loxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information
 requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods.
 If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.

If no biomonitoring data is required, do no complete.	complete Part E. Refer to the Applic	ation Overview for directions on which	other sections of the form to
E.1. Required Tests.			
Indicate the number of whole e	ffluent toxicity tests conducted in the p	ast four and one-half years.	
chronicacute			
E.2. Individual Test Data. Complete the column per test (where each species	e following chart <u>for each whole effluer</u> constitutes a test). Copy this page if	nt toxicity test conducted in the last four more than three tests are being reporte	and one-half years. Allow one
	Test number:	Test number:	Test number:
a. Test information.			
Test species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected			
Date test started			
Duration			
b. Give toxicity test methods followe	d.		
Manual title			
Edition number and year of publication			
Page number(s)			
c. Give the sample collection metho	d(s) used. For multiple grab samples	, indicate the number of grab samples u	ised.
24-Hour composite			
Grab			
d. Indicate where the sample was tal	ken in relation to disinfection. (Check	all that apply for each)	
Before disinfection			
After disinfection			
After dechlorination			

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I	Test number:	Test number:	Test number:					
e. Describe the point in the treatment process at which the sample was collected.								
Sample was collected:								
f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.								
Chronic toxicity								
Acute toxicity								
g. Provide the type of test performed								
Static								
Static-renewal								
Flow-through								
h. Source of dilution water. If laborat	tory water, specify type; if receiving wa	ater, specify source.						
Laboratory water								
Receiving water								
i. Type of dilution water. It salt water	, specify "natural" or type of artificial s	ea salts or brine used.						
Fresh water								
Salt water								
j. Give the percentage effluent used for all concentrations in the test series.								
The Point Court of the State of								
k. Parameters measured during the	test. (State whether parameter meets	test method specifications)						
pH								
Salinity								
Temperature								
Ammonia								
Dissolved oxygen								
Test Results.								
Acute:	,							
Percent survival in 100% effluent	%	%	%					
LC ₅₀								
95% C.I.	%	%	%					
Control percent survival	%	%	%					
Other (describe)								

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 VA 0067105 OMB Number 2040-0086 Missionary Learning Center Chronic: NOEC % IC_{25} % % % % % Control percent survival Other (describe) m. Quality Control/Quality Assurance. Is reference toxicant data available? Was reference toxicant test within acceptable bounds? What date was reference toxicant test run (MM/DD/YYYY)? Other (describe) E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation? If yes, describe: ___Yes ____No E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results. Date submitted: _ (MM/DD/YYYY) Surnmary of results: (see instructions) END OF PART E. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE.

EPA Form 3510-2A (Rev. 1-99). Replaces EPA forms 7550-6 & 7550-22.

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SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.

complete Pa	t F.
GENERAL	INFORMATION:
F.1. Pretrea	tment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?
Ye	sNo
	er of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of all users that discharge to the treatment works.
a. Nu	mber of non-categorical SIUs.
b. Nu	mber of CIUs.
SIGNIFICA	ANT INDUSTRIAL USER INFORMATION:
Supply the fo	ollowing information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and information requested for each SIU.
	ant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages
Name:	
Mailing	Address:
F.4. Industr	ial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
F.5. Princip	al Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's ge.
`	al product(s):
D	
Raw ma	terial(s):
F.6. Flow R	ate.
a. Pro (gpo	cess wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day if and whether the discharge is continuous or intermittent.
	gpd (continuous orintermittent)
	n-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in ons per day (gpd) and whether the discharge is continuous or intermittent.
	gpd (continuous orintermittent)
F.7. Pretreat	ment Standards. Indicate whether the SiU is subject to the following:
a. Loca	al limitsYesNo
b. Cat	egorical pretreatment standardsYesNo
If subjec	t to categorical pretreatment standards, which category and subcategory?

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F.8.	Problems at the Treatment Works Attributed to Waste Discharged by the upsets, interference) at the treatment works in the past three years?	SIU. Has the SIU caused or contributed to any problems (e.g.,
	Yes No If yes, describe each episode.	•
	· · · · · · · · · · · · · · · · · · ·	
PCE	A HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDI	CATED DIDELINE
	RCRA Waste. Does the treatment works receive or has it in the past three year	······································
F.10.	Waste Transport. Method by which RCRA waste is received (check all that a	apply):
	TruckRailDedicated Pipe	
F.11.	Waste Description. Give EPA hazardous waste number and amount (volume	e or mass, specify units).
	EPA Hazardous Waste Number Amount	Units
		
	OVA (OUDEDELIND) WASTEWATER DODA DEVENIATION (OCCUPANT)	
	CLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/COR ON WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTE	
F.12.	Remediation Waste. Does the treatment works currently (or has it been notified	ed that it will) receive waste from remedial activities?
	Yes (complete F.13 through F.15.)	
	Provide a list of sites and the requested information (F.13 - F.15.) for each cur	rent and future site.
F.13.	Waste Origin. Describe the site and type of facility at which the CERCLA/RCI the next five years).	RA/or other remedial waste originates (or is expected to originate in
•	the Heat live years).	
F.14.	Pollutants. List the hazardous constituents that are received (or are expected	to be received). Include data on volume and concentration, if known.
	(Attach additional sheets if necessary).	
F 4 F	Waste Treatment.	
r.15.	 a. Is this waste treated (or will it be treated) prior to entering the treatment wor 	ks?
	YesNo	
	If yes, describe the treatment (provide information about the removal efficie	ncy):
	b. Is the discharge (or will the discharge be) continuous or intermittent?	
	ContinuousIntermittent If intermittent, de	scribe discharge schedule.
	END OF PAR	
REF	ER TO THE APPLICATION OVERVIEW TO DETI	
80.522	2A YOU MUST CO	

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SUPPLEMENTAL APPLICATION INFORMATION

PART G. COMBINED SEWER SYSTEMS

If the treatment works has a combined sewer system, complete Part G.

- G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information)
 - a. All CSO discharge points.
 - Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).
 - c. Waters that support threatened and endangered species potentially affected by CSOs.
- G.2. System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information:
 - a. Locations of major sewer trunk lines, both combined and separate sanitary.
 - b. Locations of points where separate sanitary sewers feed into the combined sewer system.
 - c. Locations of in-line and off-line storage structures.
 - d. Locations of flow-regulating devices.
 - e. Locations of pump stations.

cso o	JTFALLS:		Consider November 1990 Section Confedence of the	
Complet	e questions G.3 thr	ough G.6 once for each CSO discharge point.		
	cription of Outfall.			
a.	Outfall number			
b.	Location			
Ů.		(City or town, if applicable)	(Zip Code)	
		(County)	(State)	
			// 22	
		(Latitude)	(Longitude)	
		<i>""</i>	¢.	
C.	Distance from shor		ft.	
d.	Depth below surface		<u> </u>	
e.	Which of the follow	ing were monitored during the last year for this CS0	O?	
	Rainfall	CSO pollutant concentrations	CSO frequency	
	CSO flow volu	meReceiving water quality		
f.	How many storm e	vents were monitored during the last year?		
G 4 CS	O Events.			
3.4. 30.				
a.	Give the number of	CSO events in the last year.		
	event	s (actual orapprox.)		
b.	Give the average d	uration per CSO event.		
	hours	(actual orapprox.)		

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2A YOU MUST COMPLETE.